STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/550,498
Source:	14/10
Date Processed by STIC:	10/5/05
	,

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/550, 498
ATTN: NÊW RULES CASES		IA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line was retrieved in a word processor after prevent "wrapping."	'wrapped' down to the next line. This may occur if your file creating it. Please adjust your right margin to .3; this will
2Invalid Line Length	The rules require that a line not exceed	72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino ac use space characters , instead.	d is misaligned. Do not use tab codes between numbers:
4Non-ASCII	The submitted file was not saved in ASC ensure your subsequent submission is	CII(DOS) text, as required by the Sequence Rules. Please saved in ASCII text.
5Variable Length	each n or Xaa can only represent a sir	oresenting more than one residue. Per Sequence Rules , gle residue . Please present the maximum number of each ate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	sequences(s) Normally, previously coded nucleic acid sequence.	PatentIn would automatically generate this section from the Please manually copy the relevant <220>-<223> section to his applies to the mandatory <220>-<223> sections for
7Skipped Sequences (OLD RULES)	(2) INFORMATION FOR SEQ ID NO.: (i) SEQUENCE CHARACTERI	al, please insert the following lines for each skipped sequence: K: (insert SEQ ID NO where "X" is shown) STICS: (Do not insert any subheadings under this heading) D NO:X: (insert SEQ ID NO where "X" is shown)
	Please also adjust the "(ii) NUMBER OI	SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intention <210> sequence id number <400> sequence id number 000	nal, please insert the following lines for each skipped sequence.
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detect Per 1.823 of Sequence Rules, use of <22 In <220> to <223> section, please explain	ed in the Sequence Listing. >-<223> is MANDATORY if n's or Xaa's are present. n location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only vascientific name (Genus/species). <220>- is Artificial Sequence	lid <213> responses are: Unknown, Artificial Sequence, or <223> section is required when <213> response is Unknown or
11Use of <220>	Use of <220> to <223> is MANDATOR "Unknown." Please explain source of ge	"Feature" and associated numeric identifiers and responses. Y if <213> "Organism" response is "Artificial Sequence" or netic material in <220> to <223> section. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
"bug"	resulting in missing mandatory numeric i	n of PatentIn version 2.0. This causes a corrupted file, dentifiers and responses (as indicated on raw sequence er" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotid	g, "Xaa" can only represent a single amino acid



PCT

PATENT APPLICATION: US/10/550,498

Input Set: A:\persico.ST25.txt
Output Set: N:\CRF4\10052005\J550498.raw

3 <110> APPLICANT: Minchiotti, Gabriella

Persico, Maria Parisi, —
7 <120> TITLE OF INVENTION: MEIRO
9 <130> FILE REFERENCE: 30242 PCT
11 <140> CURRENT APPLICATION NUMBER: US/10/550,498
12 <141> CURRENT FILING DATE: 2005-09-20
14 <160> NUMBER OF SEQ ID NOS: 42
16 <170> SOFTWARE: Patentin version 3.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 22
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial
23 <220> FEATURE:
24 <221> NAME/KEY: primer_bind< not an () (Z237 line) (see Jen II)
25 <222> LOCATION: (1)...(22)

OTHER INFORMATION:

22

Method

Application

OTHER INFORMATION: Parisi, Silvia C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/550,498 C--> 12 <141> CURRENT FILING DATE: 2005-09-20 W--> 29 <400> 1 33 <210> SEO ID NO: 2 34 <211> LENGTH: 21 35 <212> TYPE: DNA 36 <213> ORGANISM: Artificial 38 <220> FEATURE: 39 <221> NAME/KEY: primer_bind 40 <222> LOCATION: (1)..(21) 41 <223> OTHER INFORMATION: (- Same lun) W-->44<400>221 45 ggtggggttg gtatcgtttc a 48 <210> SEQ ID NO: 3 49 <211> LENGTH: 25 50 <212> TYPE: DNA 51 <213> ORGANISM: Artificial 53 <220> FEATURE: 54 <221> NAME/KEY: primer bind 55 <222> LOCATION: (1)..(25) 56 <223> OTHER INFORMATION: W--> 59 <400> 3 25 60 aaggatccag gctctgctgt gtgcc 63 <210> SEQ ID NO: 4 64 <211> LENGTH: 26 65 <212> TYPE: DNA 66 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING DATE: 10/05/2005
PATENT APPLICATION: US/10/550,498 TIME: 16:19:28

Input Set : A:\persico.ST25.txt

Output Set: N:\CRF4\10052005\J550498.raw

```
68 <220> FEATURE:
     69 <221> NAME/KEY: primer bind
     70 <222> LOCATION: (1)..(26)
     71 <223> OTHER INFORMATION:
W--> 74 <400> 4
     75 acggatccat gtccaacctc tggcgg
                                                                              26
     78 <210> SEQ ID NO: 5
     79 <211> LENGTH: 20
     80 <212> TYPE: DNA
     81 <213> ORGANISM: Artificial
     83 <220> FEATURE:
     84 <221> NAME/KEY: primer bind
     85 <222> LOCATION: (1)..(20)
     86 <223> OTHER INFORMATION:
W--> 89 <400> 5
                                                                              20
     90 atgtgccgtg gtgtcgtggt
     93 <210> SEQ ID NO: 6
     94 <211> LENGTH: 20
     95 <212> TYPE: DNA
     96 <213> ORGANISM: Artificial
     98 <220> FEATURE:
     99 <221> NAME/KEY: primer_bind
     100 <222> LOCATION: (1)..(20)
     101 <223> OTHER INFORMATION:
W--> 104 <400> 6
     105 gacctcctga tcagggatac
                                                                               20
     108 <210> SEQ ID NO: 7
     109 <211> LENGTH: 24
     110 <212> TYPE: DNA
     111 <213> ORGANISM: Artificial
     113 <220> FEATURE:
     114 <221> NAME/KEY: primer bind
     115 <222> LOCATION: (1)..(24)
                                     some
     116 <223> OTHER INFORMATION:
W--> 119 <400> 7
                                                                               24
     120 gccaagaagc ggatagaagg cggg
     123 <210> SEQ ID NO: 8
     124 <211> LENGTH: 24
     125 <212> TYPE: DNA
     126 <213> ORGANISM: Artificial
     128 <220> FEATURE:
     129 <221> NAME/KEY: primer bind
     130 <222> LOCATION: (1)..(24)
                                       sone
     131 <223> OTHER INFORMATION:
W--> 134 <400> 8
     135 ctgtggttca gggctcagtc cttc
                                                                               24
     138 <210> SEQ ID NO: 9
     139 <211> LENGTH: 24
```

140 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 10/05/2005
PATENT APPLICATION: US/10/550,498 TIME: 16:19:28

Input Set : A:\persico.ST25.txt

Output Set: N:\CRF4\10052005\J550498.raw

```
141 <213> ORGANISM: Artificial
     143 <220> FEATURE:
     144 <221> NAME/KEY: primer bind
     145 <222> LOCATION: (1)..(24)
                                   some
     146 <223> OTHER INFORMATION:
W--> 149 <400> 9
     150 ggaagagtga gcggcgcatc aagg
                                                                                24
     153 <210> SEQ ID NO: 10
     154 <211> LENGTH: 22
     155 <212> TYPE: DNA
     156 <213> ORGANISM: Artificial
    158 <220> FEATURE:
     159 <221> NAME/KEY: primer bind
    160 <222> LOCATION: (1)..(22)
    161 <223> OTHER INFORMATION: Same
W--> 164 <400> 10
                                                                                22
     165 ctgctggaga ggttattcct cg
     168 <210> SEQ ID NO: 11
     169 <211> LENGTH: 25
     170 <212> TYPE: DNA
     171 <213> ORGANISM: Artificial
     173 <220> FEATURE:
     174 <221> NAME/KEY: primer_bind
     175 <222> LOCATION: (1)..(25)
     176 <223> OTHER INFORMATION:
W--> 179 <400> 11
                                                                                25
     180 cctgctggat tacattaaag cactg
     183 <210> SEQ ID NO: 12
     184 <211> LENGTH: 25
     185 <212> TYPE: DNA
     186 <213> ORGANISM: Artificial
     188 <220> FEATURE:
     189 <221> NAME/KEY: primer bind
     190 <222> LOCATION: (1)..(25)
                                      sone
     191 <223> OTHER INFORMATION:
W--> 194 <400> 12
     195 cctgaagtac tcattatagt caagg
                                                                                25
     198 <210> SEQ ID NO: 13
     199 <211> LENGTH: 27
    200 <212> TYPE: DNA
    201 <213> ORGANISM: Artificial
    203 <220> FEATURE:
    204 <221> NAME/KEY: primer_bind
    205 <222> LOCATION: (1)..(27)
                                     same
    206 <223> OTHER INFORMATION:
W--> 209 <400> 13
                                                                                27
     210 gtaagtcgct tattaaaact tgctgtc
    213 <210> SEQ ID NO: 14
```

214 <211> LENGTH: 27

RAW SEQUENCE LISTING

DATE: 10/05/2005 PATENT APPLICATION: US/10/550,498 TIME: 16:19:28

Input Set : A:\persico.ST25.txt

Output Set: N:\CRF4\10052005\J550498.raw

```
215 <212> TYPE: DNA
    216 <213> ORGANISM: Artificial
    218 <220> FEATURE:
    219 <221> NAME/KEY: primer_bind
    220 <222> LOCATION: (1)..(27)
     221 <223> OTHER INFORMATION: Same
W--> 224 <400> 14
                                                                               27
     225 gacagcaagt tttaataagc gacttac
     228 <210> SEQ ID NO: 15
     229 <211> LENGTH: 38
     230 <212> TYPE: DNA
     231 <213> ORGANISM: Artificial
     233 <220> FEATURE:
    234 <221> NAME/KEY: primer bind
     235 <222> LOCATION: (1)..(38)
     236 <223> OTHER INFORMATION: Same
W--> 239 <400> 15
                                                                               38
     240 cttgctgtct gaatggaaac acttgcatcc tggggtcc
     243 <210> SEQ ID NO: 16
     244 <211> LENGTH: 38
     245 <212> TYPE: DNA
     246 <213> ORGANISM: Artificial
     248 <220> FEATURE:
     249 <221> NAME/KEY: primer_bind
     250 <222> LOCATION: (1)..(38)
    251 <223> OTHER INFORMATION: Same
W--> 254 <400> 16
     255 ggaccccagg atgcaagtgt ttccattcag acagcaag
                                                                               38
     258 <210> SEQ ID NO: 17
     259 <211> LENGTH: 23
     260 <212> TYPE: DNA
     261 <213> ORGANISM: Artificial
    263 <220> FEATURE:
    264 <221> NAME/KEY: primer bind
     265 <222> LOCATION: (1)..(23)
    266 <223> OTHER INFORMATION:
W--> 269 <400> 17
                                                                              23
     270 gaatggaggg gcttgcatcc tgg
     273 <210> SEQ ID NO: 18
     274 <211> LENGTH: 23
    275 <212> TYPE: DNA
     276 <213> ORGANISM: Artificial
     278 <220> FEATURE:
    279 <221> NAME/KEY: primer_bind
    280 <222> LOCATION: (1)..(23)
     281 <223> OTHER INFORMATION: Jone
W--> 284 <400> 18
                                                                               23
    285 ccaggatgca agcccctcca ttc
```

288 <210> SEO ID NO: 19

29

29

31

31

RAW SEQUENCE LISTING

DATE: 10/05/2005 PATENT APPLICATION: US/10/550,498 TIME: 16:19:28

Input Set : A:\persico.ST25.txt

Output Set: N:\CRF4\10052005\J550498.raw

- 289 <211> LENGTH: 29
- 290 <212> TYPE: DNA
- 291 <213> ORGANISM: Artificial
- 293 <220> FEATURE:
- 294 <221> NAME/KEY: primer_bind
- 295 <222> LOCATION: (1)..(29)
- 296 <223> OTHER INFORMATION:
- W--> 299 <400> 19
 - 300 cttgcatcct gggggccttc tgtgcctgc
 - 303 <210> SEQ ID NO: 20
 - 304 <211> LENGTH: 29
 - 305 <212> TYPE: DNA
 - 306 <213> ORGANISM: Artificial
 - 308 <220> FEATURE:
 - 309 <221> NAME/KEY: primer_bind
 - 310 <222> LOCATION: (1)..(29)
 - 311 <223> OTHER INFORMATION:
- W--> 314 <400> 20
 - 315 gcaggcacag aaggccccca ggatgcaag
 - 318 <210> SEQ ID NO: 21
 - 319 <211> LENGTH: 31
 - 320 <212> TYPE: DNA
 - 321 <213> ORGANISM: Artificial
 - 323 <220> FEATURE:
 - 324 <221> NAME/KEY: primer_bind
 - 325 <222> LOCATION: (1)..(31)
 - 326 <223> OTHER INFORMATION: same
- W--> 329 <400> 21
 - 330 gcatcctggg gtccgcctgt gcctgccctc c
 - 333 <210> SEQ ID NO: 22
 - 334 <211> LENGTH: 31
 - 335 <212> TYPE: DNA
 - 336 <213> ORGANISM: Artificial
 - 338 <220> FEATURE:
 - 339 <221> NAME/KEY: primer bind
 - 340 <222> LOCATION: (1)..(31)
 - 341 <223> OTHER INFORMATION: Some
- W--> 344 <400> 22
 - 345 gcatcctggg gtccgcctgt gcctgccctc c
 - 348 <210> SEQ ID NO: 23
 - 349 <211> LENGTH: 31
 - 350 <212> TYPE: DNA
 - 351 <213> ORGANISM: Artificial
 - 353 <220> FEATURE:
 - 354 <221> NAME/KEY: primer bind
 - 355 <222> LOCATION: (1)..(31)
 - 356 <223> OTHER INFORMATION: /
- W--> 359 <400> 23
 - 360 gcatcctggg gtcctggtgt gcctgccctc c

FyI (globalena)

The types of errors shown exist throughout the Sequence Using Please check subscribent entre los similar ectors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/05/2005 PATENT APPLICATION: US/10/550,498 TIME: 16:19:29

Input Set : A:\persico.ST25.txt

Output Set: N:\CRF4\10052005\J550498.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27 Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/550,498 TIME: 16:19:29

DATE: 10/05/2005

Input Set : A:\persico.ST25.txt

Output Set: N:\CRF4\10052005\J550498.raw

```
L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:26
L:44 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:41
L:59 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3, Line#:56
L:74 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:71
L:89 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:86
L:104 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:101
L:119 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:116
L:134 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8, Line#:131
L:149 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:146
L:164 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:161
L:179 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11, Line#:176
L:194 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12, Line#:191
L:209 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13, Line#:206
L:224 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14, Line#:221
L:239 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15, Line#:236
L:254 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16, Line#:251
L:269 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:17, Line#:266
L:284 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18, Line#:281
L:299 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:19, Line#:296
L:314 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:311
L:329 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:326
L:344 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:341
L:359 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:23,Line#:356
L:374 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:24, Line#:371
L:389 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:25, Line#:386
L:404 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:26, Line#:401
L:419 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:27, Line#:416
L:434 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:28, Line#:431
L:449 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:29, Line#:446
L:464 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:30,Line#:461
L:479 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:31,Line#:476
L:494 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:32, Line#:491
L:509 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:33, Line#:506
L:566 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:34, Line#:563
L:619 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:35, Line#:616
L:676 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:36,Line#:673
L:725 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:37,Line#:722
L:774 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:38,Line#:771
L:807 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:39, Line#:804
L:844 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:40, Line#:841
L:905 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:41,Line#:902
L:962 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:42,Line#:959
```

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.